



New Energy Storage Policies in Southeast Asia





Overview

Do policy-makers in Southeast Asia and China know about energy transitions?

Moreover, anecdotal evidence suggests that policy- and decision-makers in southeast Asia and China are less familiar with the concept. Other concerns, such as overall economic development or energy security, often take precedence over energy transitions – particularly just energy transitions – in regional policy debates.

Why is energy security important in Southeast Asia?

Ensuring energy security is becoming increasingly crucial in Southeast Asia as the region navigates its transition towards a clean energy future. This is not an easy task, particularly for fast-growing Southeast Asian economies with rising demand for energy. At the heart of this challenge lies growing concerns over gas import dependence.

Is energy access still a problem in Southeast Asia?

Indeed, energy access remains an issue in the southeast Asian region. For instance, in countries like Cambodia or Myanmar, about 5% still lack access to reliable forms of energy and only 75% of people have access to clean cooking facilities (IEA, 2022).

How much battery storage capacity will Southeast Asia need by 2050?

The 1.5 degree-aligned transition pathways outlined by the International Renewable Energy Agency forecasts a need for over 600 GW of battery storage capacity in Southeast Asia by 2050. This capacity is essential to support the integration of variable renewable energy and reduce reliance on fossil fuel-based generation.

Will a new LNG facility boost Southeast Asia's LNG import capacity?

Across Southeast Asia, LNG facilities with a combined capacity of 47 million tonnes are currently under development. If completed, they will boost the



region's LNG import capacity by 80 per cent.

Which energy sources are used in Southeast Asia?

For instance, around 80% of total energy demand in the 10 countries making up the Association of Southeast Asian Nations (ASEAN) is met by coal, oil and gas (ACE, 2024), while around 72% of electricity comes from those sources (and with hydropower and traditional biomass accounting for most of the renewable electricity generation).



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This report looks at the deployment of renewables in five Southeast Asian markets since the beginning of the 21st century and identifies

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[Southeast Asia's role in tripling global renewables ...](#)

Countries in the region must address policy and regulatory issues to ensure that they can play their part in contributing to the global pledge to

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Singapore poised to be the 'core' of 25GW renewable and energy storage

Singapore could sit at the "core" of new regional electricity grids in Southeast Asia, according to research from Rystad Energy.

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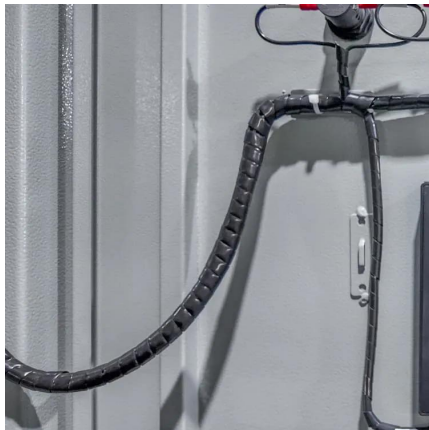
[IRENA - International Renewable Energy Agency](#)

The document explores investment opportunities in Southeast Asia's energy transition, focusing on



renewable energy and sustainable development.

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[Energy transition in Southeast Asia: Current trends](#)

Notably in Southeast Asia, there's a growing emphasis on renewable energy sources, such as solar and wind power, driven by both ...

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[Energy Technologies and Decarbonization in Southeast Asia](#)

Similar to their decarbonization plans, many Southeast Asian nations lack both concrete plans and infrastructure to deploy these emerging energy technologies. To ...

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To support this conceptualization of just energy transitions, we then gathered some key data on the progress of the energy transition in southeast Asia over a period of roughly 10 years, ...

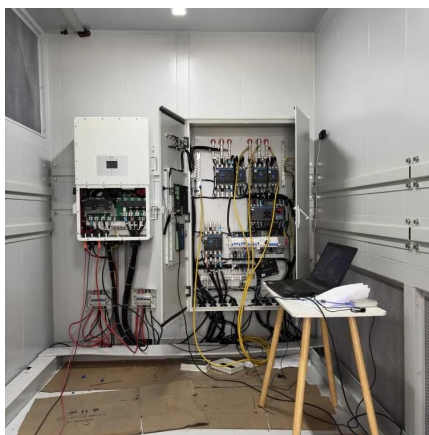
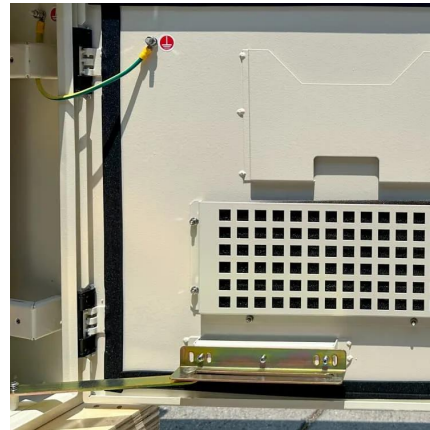
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Market attractiveness analysis of battery energy storage systems ...

Despite the crucial role that BESS play in facilitating the energy transition, Southeast Asia's BESS market remains in its early stages, marked by a lack of significant ...

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ENERGY TRANSITION IN SOUTHEAST ASIA: SOLVING ...

Southeast Asia can look to Australia and Japan as examples of how to promote the adoption of energy storage systems (and, once the necessary regulations are in place, the potential speed ...

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Southeast Asia Battery Storage Market 2030: Trends, Policy, and

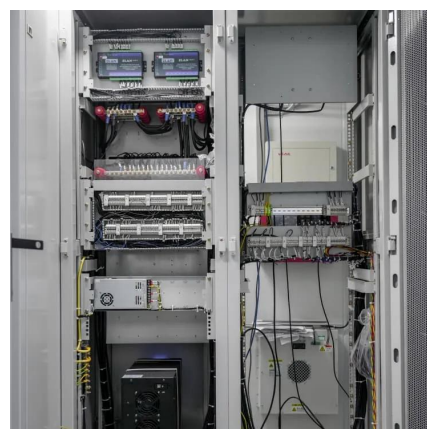
Southeast Asia's battery storage market is set to hit USD 5 Bn by 2030, driven by policy, tech shifts, and energy demands in Vietnam, Philippines & Thailand.

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The Rising Demand for Residential Energy Storage in Southeast Asia

Conclusion Southeast Asia's journey towards a sustainable energy future is driving the demand for residential energy storage systems. As the region continues to urbanize and ...

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Southeast Asia's new energy policy announcements in pursuing ...

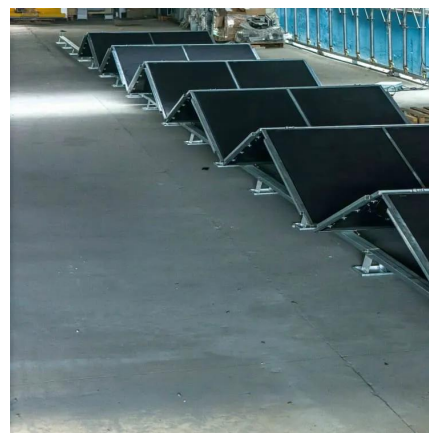
The Southeast Asia (SEA) region has ambitious goals to achieve net-zero emissions between 2050 and 2065. It surely will require great efforts for the region's power sector to achieve these ...

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[Philippines reveals draft energy storage market policy ...](#)

The Department of Energy in the Philippines has outlined a new set of market rules and policies for energy storage systems (ESS).

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The grid infrastructure, electricity market structure, and finance gaps that have become apparent in the last two years have led to a ...

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[Overview: energy storage market in Southeast Asia](#)

Through this article, let's take a look at the development of the energy storage markets in Southeast Asia.

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Southeast Asia is emerging as a key player in the global clean energy transition, though fossil fuels--particularly coal--continue to dominate the region's energy mix, according ...

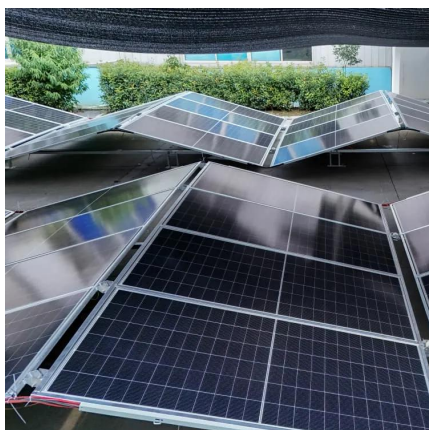
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[Southeast Asia's learning curve for energy](#)

Emerging energy storage markets across Asia face a similar learning curve today as their maturing counterparts have done in the past.

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[China, South Korea, and Japan looking into ASEAN's ...](#)

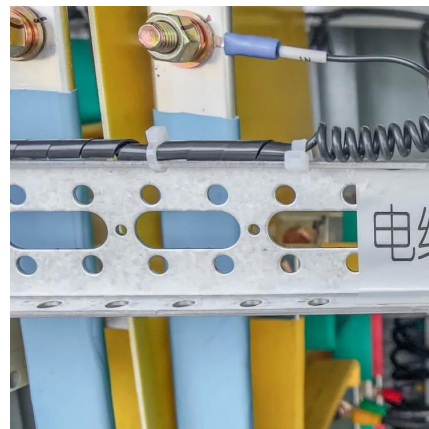
Southeast Asia is a developing region with a huge appetite for energy, and investors in China, South Korea, and Japan are now finding ...

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EV Policies in ASEAN Countries

The new model, named battery-as-a-service, is said to be the first in Southeast Asia, and will enable EV users to rent the car battery instead of ...

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[Battery energy storage systems: Southeast Asia's key to ...](#)

With 80% of the energy mix still reliant on finite resources, Southeast Asia faces a critical challenge: securing energy reliability while addressing climate change.

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